

# Anti-Ferredoxin--NADP reductase, leaf isozyme 2, chloroplastic , N-terminal antibody

Catalog: PHY0611

## Product Information

|                                 |   |
|---------------------------------|---|
| <b>Description:</b>             | Rabbit polyclonal antibody  |
| <b>Background:</b>              | Two distinct ferredoxin-NADP(+)-oxidoreductase (FNR) isoforms were found in chloroplasts of <i>Arabidopsis thaliana</i> , FNR-1 (AT5G66190) and FNR-2 (AT1G20020). The FNR proteins are present in both chloroplast stroma and thylakoid membranes in chloroplasts but are more abundant in the stroma. |
| <b>Synonyms:</b>                | FNR2, LFNR2, AtLFNR2, FNR-2, Leaf FNR 2   |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> FNR2 (AT1G20020).   |
| <b>Form:</b>                    | Lyophilized   |
| <b>Quantity:</b>                | 150 µg  |
| <b>Purification:</b>            | Protein A purified  |
| <b>Reconstitution:</b>          | Reconstitution with 150 µl of 0.01 M sterile PBS.<br>"Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".  |
| <b>Stability &amp; Storage:</b> | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70°C as supplied.<br>6 months, -20 to -70°C under sterile conditions after reconstitution.<br>1 month, 2 to 8°C under sterile conditions after reconstitution.                           |
| <b>Shipping:</b>                | The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.   |

## Application Information

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|--------------------------------|--|
| <b>Recommended Dilution:</b>   | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user. |
| <b>Expected / apparent MW:</b> | 41 / 35 kDa  |
| <b>Confirmed Reactivity:</b>   | <i>Arabidopsis thaliana</i>  |
| <b>Predicted Reactivity:</b>   | Among species analyzed, the sequence of the synthetic peptide used   |

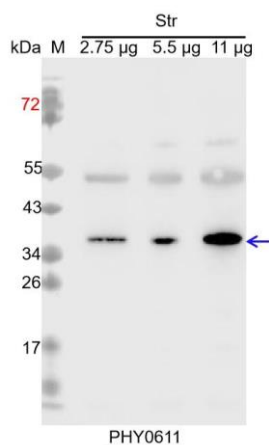
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for immunization is 80-99% homologues with the sequence in *Oryza sativa*, *Setaria viridis*, *Brassica napus*, *Brassica rapa*, *Triticum aestivum*, *Panicum virgatum*, *Hordeum vulgare*, *Triticum aestivum*, *Sorghum bicolor*.

The sequence of the synthetic peptide used for immunization is 67% (10/15) homologues with the sequence in FNR1 (AT5G66190).

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example



Str: 2.75 µg, 5.5 µg and 11 µg stromal protein from *Arabidopsis thaliana*, respectively.

**Electrophoresis:** 15% SDS-Urea-PAGE

**Transfer:** blotting to NC (nitrocellulose) membrane for 1 h.

**Blocking:** 5% skim milk at RT or 4°C for 1 h.

**Primary antibody:** 1:1000 dilution overnight at 4°C.

**Secondary antibody:** 1:20000 dilution using Goat Anti-Rabbit IgG H&L(HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.